

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Canceled)
2. (Currently amended) The method for producing cytidine derivatives according to Claim ~~1~~ 14, where R1 and R2 each independently are an aliphatic acyl group having 1 to 4 carbon atoms, an aromatic acyl group, an aromatic acyl group substituted with ~~an~~ at least one alkyl ~~group(s) group~~ having 1 to 4 carbon atoms, an aromatic acyl group substituted with a at least one halogen ~~atom(s) atom~~, an aromatic acyl group substituted with ~~an~~ at least one alkoxy ~~group(s) group~~ having 1 to 4 carbon atoms, or a trialkylsilyl group, R3 is a hydrogen atom, an alkoxy group having 1 to 4 carbon atoms, an aliphatic alkoxy group having 1 to 4 carbon atoms substituted with ~~an~~ at least one alkoxy ~~group(s) group~~ having 1 to 4 carbon atoms, an aliphatic acyloxy group having 1 to 4 carbon atoms, an aromatic acyloxy group, an aromatic acyloxy group substituted with ~~an~~ at least one alkyl ~~group(s) group~~ having 1 to 4 carbon atoms, an aromatic acyloxy group substituted with a at least one halogen ~~atom(s) atom~~, or an aromatic acyloxy group substituted with ~~an~~ at least one alkoxy ~~group(s) group~~ having has 1 to 4 carbon atoms.
3. (Currently amended) The method for producing cytidine derivatives according to Claim 2, where X represents a hydrogen atom or a methyl group, R3 is a hydrogen atom, a methoxy group, or a ~~methoxyethyl~~ methoxyethyl group.

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Currently amended) The method for producing cytidine derivatives according to Claim \pm 14, wherein said ~~tertiary~~ alicyclic amine is N-methylpiperidine, N-methylmorpholine, 1,4- diazabicyclo[2.2.2]octane, or N,N'-dimethylpiperazine, ~~or trimethylamine.~~

8. (Currently amended) The method for producing cytidine derivatives according to Claim \pm 14, characterized in that said dehydrating reactant is acid halides or acid anhydrides, and said reaction is carried out in the presence of a deacidifying agent.

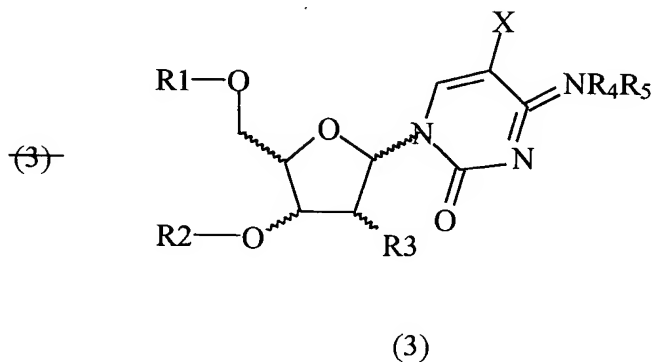
9. (Currently amended) The method for producing cytidine derivatives according to Claim 8, wherein said ~~deacidifying agent~~ dehydrating reactant is p-toluenesulfonyl chloride.

10. (Currently amended) The method for producing cytidine derivatives according to Claim \pm 14, wherein the molar ratio of said ~~tertiary~~ alicyclic amine to said uridine derivative represented by formula (1) is 1.2 or less.

11. (Canceled)

12. (Currently amended) The cytidine derivative or salts thereof according to Claim ~~1~~ 16, where X represents a hydrogen atom or a methyl group, R1 and R2 are a hydrogen atom or a hydroxyl-protecting group, R3 is a hydrogen atom, a methoxy group, or a methoxyethyloxy group, n and m are 2, A is a methyl group, and Y is a methylene group or an oxygen atom.

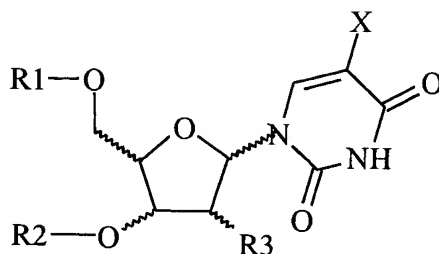
13. (Currently amended) A method for producing a cytidine derivative represented by formula (3):



wherein, X represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 4 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with a at least one halogen ~~atom(s)~~ atom, or an alkenyl group having 2 to 4 carbon atoms, R1 and R2 each independently represent either a hydrogen atom or a hydroxyl-protecting group, and R3 represents a hydrogen atom, a halogen atom, a hydroxyl group, an alkyl group having 1 to 4 carbon atoms, a cyano group, an alkenyl group, an alkynyl group, an alkoxy group

having 1 to 4 carbon atoms, a hydroxyl group substituted with a hydroxyl-protecting group, and R4 and R5 each independently represent a hydrogen atom, an alkyl group having 1 to 4 carbon atoms, a cycloalkyl group having 5 to 8 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with a at least one halogen atom(s) atom, or an alkenyl group having 2 to 4 carbon atoms, or R4 and R5 linked together may form a ring, characterized in that the cytidine derivative or salts thereof according to Claim ~~11~~ 16 is reacted with ammonia or a primary or secondary amine.

14. (New) A method, characterized in that a uridine derivative represented by formula (1):

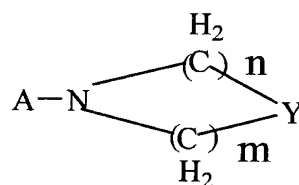


(1)

wherein, X represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 4 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with at least one halogen atom, or an alkenyl group having 2 to 4 carbon atoms, and R1 and R2 each independently represent either a hydrogen atom or a hydroxyl-protecting group, and R3 represents a hydrogen atom, a halogen atom, a hydroxyl group, an alkyl group having 1 to

4 carbon atoms, a cyano group, an alkenyl group, an alkynyl group, an alkoxy group having 1 to 4 carbon atoms, a protected hydroxyl group,

is reacted with an alicyclic amine represented by formula (4):



(4)

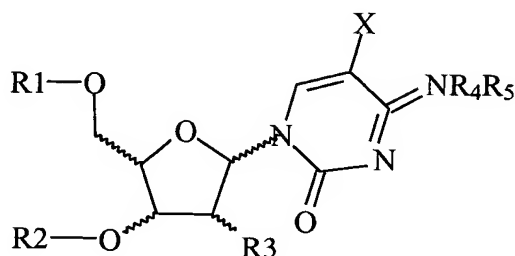
wherein, n and m each independently represent an integer of 1 to 4, Y represents a methylene group, oxygen atom, sulfur atom or an alkylamine having 1 to 4 carbon atoms provided that, when Y is a methylene group or an alkylamine having 1 to 4 carbon atoms, a carbon atom of either the methylene group of the alkylamine having 1 to 4 carbons atoms may be attached to A to form a ring, A represents an alkyl group having 1 to 4 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with at least one halogen atom, an alkenyl group having 2 to 4 carbon atoms, or A attached to Y may form a ring, or salts thereof,

and dehydrating reactant, followed by reaction with ammonia, or a primary or a secondary amine represented by formula (2):

HNR₄R₅

(2)

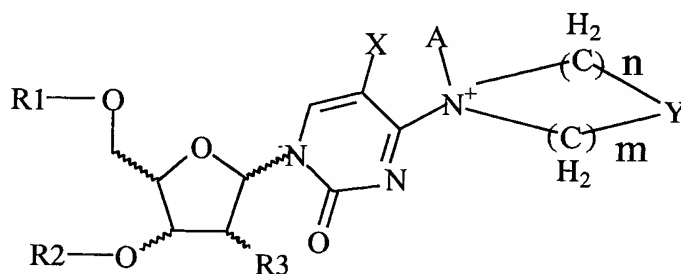
wherein, R4 and R5 each independently represent a hydrogen atom, an alkyl group having 1 to 4 carbon atoms, a cycloalkyl group having 5 to 8 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with at least one halogen atom, or an alkenyl group having 2 to 4 carbon atoms, or R4 and R5 linked together may form a ring, for producing a cytidine derivative represented by formula (3):



(3)

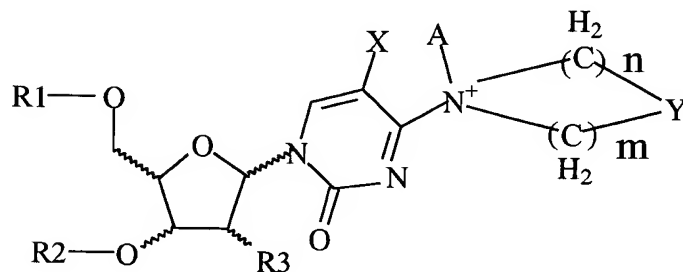
wherein, X, R1, R2, R3, R4 and R5 are as defined above.

15. (New) The method for producing cytidine derivatives according to Claim 14, characterized in that a reaction intermediate, in reacting uridine derivatives with a tertiary amine and a dehydrating reactant, is a cytidine derivative represented by formula (5):



(5)

16. (New) A cytidine derivative represented by formula (5):



(5)

wherein, X represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 4 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with at least one halogen atom, or an alkenyl group having 2 to 4 carbon atoms, R1 and R2 each independently represent either a hydrogen atom or a hydroxyl-protecting group, R3 represents a hydrogen atom, a halogen atom, a hydroxyl group, an alkyl group having 1 to 4 carbon atoms, a cyano group, an alkenyl group, an alkynyl group, an alkoxy group

having 1 to 4 carbon atoms, a protected hydroxyl group, n and m each independently represent an integer of 1 to 4, Y represents a methylene group, oxygen atom, sulfur atom or an alkylamine having 1 to 4 carbon atoms provided that, when Y is a methylene group or an alkylamine having 1 to 4 carbon atoms, a carbon atom of either the methylene group of the alkylamine having 1 to 4 carbons atoms may be attached to A to form a ring, A represents an alkyl group having 1 to 4 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted with at least one halogen atom, an alkenyl group having 2 to 4 carbon atoms, or A attached to Y may form a ring, or salts thereof.